

## CLAIMS

1. An application programming interface (API), comprising:

a non-scriptable plug-in API;

5 a scriptable plug-in API; and

bridges connecting said scriptable and said non-scriptable plug-in APIs.

2. The API of claim 1 further comprising:

a first interface in said scriptable plug-in API; and

10 a second interface in said non-scriptable plug-in API wherein one of said bridges connects said first interface and said second interface.

3. An API comprising:

a cross platform language API;

15 a scriptable language API; and

an interface between said cross platform language API and said scriptable language API.

4. The API of claim 3 further comprising:

a non-scriptable plug-in API;

20 an interface between said non-scriptable plug-in API and said cross platform language API.

5. The API of claim 4 further comprising:

a cross platform language object in said cross platform language API;

a scripting language object in said scripting language API;

a non-scriptable plug-in object in said non-scriptable plug-in API;

5 an interface between said cross platform language object and said scripting language object; and

an interface between said non-scriptable plug-in object and said cross platform language object.

10 6. The API of claim 4 wherein said interface is an XPIDL interface.

7. The API of claim 3 wherein said interface is an XPConnect interface.

8. The API of claim 7 wherein said XPConnect interface uses typelib files.

15 9. The API of claim 3 wherein said scripting language object is a Javascript object, a Perl object, or a Python object.

10. The API of claim 3 wherein said cross platform language is XPCOM.

20 11. A scriptable plug-in API comprises:

a scriptable plug-in; and

a proxy support interface wherein said scriptable plug-in can perform inter-thread calls through said proxy support interface.

12. The scriptable plug-in API of claim 11 wherein said proxy support interface is a  
5 nsISupports Proxy.

13. A method for implementing an API, comprising:

obtaining a non-scriptable plug-in API;

obtaining a scriptable plug-in API; and

10 implementing bridges to connect said scriptable and said non-scriptable plug-in APIs.

14. The method of claim 13 further comprising:

defining a first interface in said scriptable plug-in API; and

defining a second interface in said non-scriptable plug-in API;

15 using one of said bridges to connect said first interface and said second interface.

15. A method for implementing an API comprising:

obtaining a cross platform language API;

obtaining a scriptable language API; and

20 implementing an interface between said cross platform language API and said scriptable language API.

16. The method of claim 15 further comprising:  
obtaining a non-scriptable plug-in API;  
implementing an interface between said non-scriptable plug-in API and said cross  
platform language API.

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17. The method of claim 16 further comprising:  
defining a cross platform language object in said cross platform language API;  
defining a scripting language object in said scripting language API;  
defining a non-scriptable plug-in object in said non-scriptable plug-in API;  
10 implementing an interface between said cross platform language object and said scripting  
language object; and  
implementing an interface between said non-scriptable plug-in object and said cross  
platform language object.

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18. The method of claim 16 wherein said interface is an XPIDL interface.

19. The method of claim 15 wherein said interface is an XPConnect interface.

20. The method of claim 19 wherein said XPConnect interface uses typelib files.

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21. The method of claim 15 wherein said scripting language object is a Javascript  
object, a Perl object, or a Python object.

22. The method of claim 15 wherein said cross platform language is XPCOM.

23. A method of implementing a scriptable plug-in API comprising:

implementing a scriptable plug-in; and

5 using a proxy support interface wherein said scriptable plug-in can perform inter-thread calls through said proxy support interface.

24. The method of claim 23 wherein said proxy support interface is a nsISupports Proxy.

25. A computer program product comprising:

a computer usable medium having computer readable program code embodied therein configured to implement an API, said computer program product comprising:

15 computer readable code configured to cause a computer to obtain a non-scriptable plug-in API;

computer readable code configured to cause a computer to obtain a scriptable plug-in API; and

computer readable code configured to cause a computer to implement bridges to connect said scriptable and said non-scriptable plug-in APIs.

26. The computer program product of claim 25 further comprising:

computer readable code configured to cause a computer to define a first interface in said scriptable plug-in API; and

computer readable code configured to cause a computer to define a second interface in  
said non-scriptable plug-in API;

computer readable code configured to cause a computer to use one of said bridges to  
connect said first interface and said second interface.

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27. A computer program product comprising:

a computer usable medium having computer readable program code embodied therein  
configured to implement an API, said computer program product comprising:

computer readable code configured to cause a computer to obtain a cross platform  
10 language API;

computer readable code configured to cause a computer to obtain a scriptable language  
API; and

computer readable code configured to cause a computer to implement an interface  
between said cross platform language API and said scriptable language API.

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28. The computer program product of claim 27 further comprising:

computer readable code configured to cause a computer to obtain a non-scriptable plug-  
in API ; and

computer readable code configured to cause a computer to implement an interface  
20 between said non-scriptable plug-in API and cross platform language API.

29. The computer program product of claim 28 further comprising:

computer readable code configured to cause a computer to define a cross platform language object in said cross platform language API;

5 computer readable code configured to cause a computer to define a scripting language object in said scripting language API;

computer readable code configured to cause a computer to define a non-scriptable plug-in object in said non-scriptable plug-in API;

computer readable code configured to cause a computer to implement an interface between said cross platform language object and said scripting language object; and

10 computer readable code configured to cause a computer to implement an interface between said non-scriptable plug-in object and said cross platform language object.

30. The computer program product of claim 28 wherein said interface is an XPIDL interface.

15 31. The computer program product of claim 27 wherein said interface is an XPConnect interface.

20 32. The computer program product of claim 31 wherein said XPConnect interface uses typelib files.

33. The computer program product of claim 27 wherein said scripting language object is a Javascript object, a Perl object, or a Python object.

34. The computer program product of claim 27 wherein said cross platform language is XPCOM.

5 35. A computer program product comprising:  
a computer usable medium having computer readable program code embodied therein  
configured to implement a scriptable plug-in API, said computer program product comprising:  
computer readable code configured to cause a computer to obtain a scriptable plug-in;  
and

10 computer readable code configured to cause a computer to use a proxy support interface  
wherein said scriptable plug-in can perform inter-thread calls through said proxy support  
interface.

15 36. The computer program product of claim 35 wherein said proxy support interface  
is a nsISupports Proxy.